

CAS STNext[®] Webinar

SEARCHING FOR CHINESE PATENT DOCUMENTS

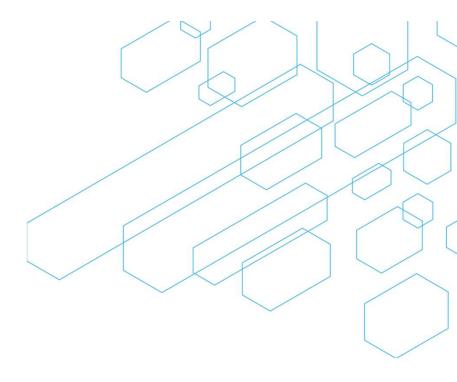
Jim Brown, FIZ Karlsruhe





Agenda

- Databases with Chinese patent information
- CAplus, DWPI, INPA, CNFULL, REAXYSFILEBIB
- Chinese dual filings
- Single member patent families in CAplus
- Legal status info in INPA





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Background of Chinese patents

- First granted Chinese patent 1985
- The amount of Chinese documents published has exploded over the last 39 years
- Dual filing patent application and utility model filed on the same day



Chinese kind codes

- CNA Unexamined patent application
- CNA8 Corrected front page of unexamined application
- CNA9 Corrected complete unexamined application
- CNB Examined application (from 19850401 until 19921231) or granted patent (from April 7, 2010)
- CNB8 Corrected front page of granted patent
- CNB9 Corrected complete granted patent
- CNC Granted patent (from April 1, 1985 to April 6, 2010)



Chinese kind codes

- CNC8 Corrected front page from granted patent
- CNC9 Corrected full specification of granted patent
- CNK1 Non-official translation of CNA document not issued by patent office
- CNK2 Non-official translation of CNB document not issued by patent office
- CNK3 Non-official translation of CNC document not issued by patent office
- CNK4 Non-official translation of CNU document not issued by patent office
- CNK5 Non-official translation of CNY document not issued by patent office



Chinese kind codes

- CNS Design application (from April 1, 1985 to August 28, 2007) or registered design patent (from August 29, 2007 forward)
- CNS8 Reissue of front page of design document
- CNS9 Reissue of complete design document
- CNU Utility model application (from April 1, 1985 to August 28, 2007) or registered design (from April 7, 2010 forward)
- CNU8 Corrected front page from utility model (from April 7, 2010 forward)
- CNU9 Corrected full specification of utility model (from April 7, 2010 forward)
- CNY Granted patent for utility model (from April 1, 1985 to April 6, 2010)





Unexamined patent application documents (according to CNFULL – 2/23/2024)

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20000	000							-		\square	
15000	000						+	╀			
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	Publication year		6 1		10	10	10 1	1° 1	, 1°	10	12
7	© 2024 American Chemical Society. All rights reserved.	FIZ Leibniz Ir	Karls		1e	nfrastru	cture	A dir Ame	CA vision of the erican Chem		

Chinese Utility documents (according to CNFULL – 2/28/2024)

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30000	000	
25000	000	
20000	000	
15000	000	
10000	000	
5000		
	, 38°, 38°, 38°, 38°, 38°, 39°, 39°, 39°, 39°, 39°, 39°, 39°, 39	
	■ Publication yea	ar
8	© 2024 American Chemical Society. All rights reserved.	FIZ Karlsruhe Leibniz Institute for Information Infrastructure

Granted patent documents (according to CNFULL – 2/23/2024)

1000000		
900000		-
800000		++
700000		\square
600000		
500000		
400000		\square
300000		\square
200000		\square
100000		
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	■ Publication year	·
	FIZ Karlsruhe CAS	5

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Leibniz Institute for Information Infrastructure

CAplus

- Produced by CAS
- Value-add database of patent family records and non-patent literature records
- Chemistry and Biology focused, but other disciplines can be included as well
- Patent assignee standardization
- English title and abstract (originally machine translation, then human translation)
- Patent status indicators
- Over 9 million patent family records include Chinese documents





CAplus – Chinese kind code counts as of 2-21-2024

=> e	cna/pk		
E1	221		CLU1/PK
E2	122	1	CLY/PK
E3	8684491	>	CNA/PK
E4	82		CNA9/PK
E5	3012001		CNB/PK
E6	284335		CNC/PK
E7	1		CNC9/PK
E8	597952		CNU/PK
E9	16		CNU9/PK
E10	18761		CNY/PK
E11	8100)	COA1/PK
E12	<mark>1</mark> 9808		COA2/PK





Derwent World Patents Index (DWPI)

- Produced by Clarivate
- Value-add database of patent family records
- Covers all disciplines
- Assignee standardization/PACOs
- English translation of title, abstract and all claims from June 2007
- Examiner citations from 2010
- Numeric Property Search
- Over 35 million patent family records include Chinese documents





DWPI – Chinese kind code counts as of 2-21-2024

=> e	cna/pk 16		
E1	10		CHC1/PK
E2	1		CHC9/PK
E3	17224098	>	CNA/PK
E4	1091		CNA8/PK
E5	108		CNA9/PK
E6	5942949		CNB/PK
E7	750		CNB8/PK
E8	675		CNB9/PK
E9	556461		CNC/PK
E10	1		CNC8/PK
E11	18972507		CNU/PK
E12	1540		CNU8/PK
E13	467		CNU9/PK
E14	582940		CNY/PK
E15	113958		CSA/PK
E16	1		CSA1/PK





INPADOCDB

- Produced by the European Patent Office and FIZ Karlsruhe
- Database of patent family records
- Covers all disciplines
- Calculated expiration dates
- Patent status indicators
- Over 36 million patent family records include Chinese documents
- Titles and abstracts enter database in Chinese; later an English title and abstract are available
- Title, abstract, inventor and patent assignee are available as display fields with Chinese characters





INPADOCDB kind code counts as of 2/21/2024

=> e	<mark>cna/p</mark> k 17		
E1	1339		CLU1/PK
E2	5		CLY/PK
E3	17102183	>	CNA/PK
E4	1082		CNA8/PK
E5	109		CNA9/PK
E6	5900892		CNB/PK
E7	741		CNB8/PK
E8	661		CNB9/PK
E9	554653		CNC/PK
E10	3		CNC8/PK
E11	4		CNC9/PK
E12	299		CNS/PK
E13	1 <mark>91275</mark> 63		CNU/PK
E14	1535		CNU8/PK
E15	469		CNU9/PK
E16	1307652		CNY/PK
E17	14635		COA1/PK

FIZ Karlsruhe



CNFULL

- Produced by LexisNexis
- Full text patent database
- English translations
- 1985-present
- Includes 8 million design patents with Locarno classifications
- Key terms
- Numeric Property Search
- Search option for claims group (/CLM.CG) and independent claims (/CLM.IC)
- Over 46 million records
- Title, abstract, inventor and patent assignee are available as display fields with Chinese characters





CNFULL kind code counts as of 2/21/2024

=> E	CNA/PK 25		
E1	2		B/PK
E2	1		C/PK
E3	17552971	>	CNA/PK
E4	1116		CNA8/PK
E5	112		CNA9/PK
E6	6084680		CNB/PK
E7	762		CNB8/PK
E8	685		CNB9/PK
E9	576519		CNC/PK
E10	3		CNC8/PK
E11	4		CNC9/PK
E12	364		CNK1/PK

E23 E24	1309546 1	CNY/PK S/PK
E22	474	CNU9/PK
E21	1579	CNU8/PK
E20	19182786	CNU/PK
E19	1400	CNS9/PK
E18	492	CNS8/PK
E17	8439642	CNS/PK
E16	26	CNK5/PK
E15	29	CNK4/PK
E14	18	CNK3/PK
E13	11	CNK2/PK





REAXYSFILEBIB

- Produced by Elsevier
- Has patent family information
- Chemical indexing available from 2016
- 1985-present
- Over 26 million records



REAXYSFILEBIB kind code counts as of 2/22/2024

=> E	CNA/PK 25	
E1	648	CLS1/PK
E2	972	CLU1/PK
E3	21466550	> CNA/PK
E4	8427	CNA8/PK
E5	573	CNA9/PK
E6	10835098	CNB/PK
E7	2999	CNB8/PK
E8	6864	CNB9/PK
E9	2320771	CNC/PK
E10	13	CNC8/PK
E11	12	CNC9/PK
E12	255	CNK1/PK

E13	23	CNK2/PK
E14	93	CNK3/PK
E15	10	CNK4/PK
E16	8	CNK5/PK
E17	15974	CNS/PK
E18	5201322	CNU/PK
E19	1095	CNU8/PK
E20	387	CNU9/PK
E21	236091	CNY/PK
E22	190158	COA1/PK
E23	524470	COA2/PK
E24	242	COU1/PK
E25	318481	CRA/PK





Timeliness of Chinese documents

- CAplus less than a week for CNA documents
- DWPI about four weeks for CNA documents
- INPA about three weeks for CNA documents
- CNFULL less than a week for CNA documents



Impact of Chinese documents

- As of 2/23/2024 CAplus has 19,918,562 patent family records
- 9,319,676 have a Chinese member (>46%)
- 7,850,838 have a Chinese document as the basic (>39%)
- -4,828,795 after taking out single member DEAD records (>24%)
- As of 2/23/2024 DWPI has 62,426,624 patent family records
- 35,574,468 have a Chinese member (>56%)
- 32,805,290 have a Chinese document as the basic (>52%)



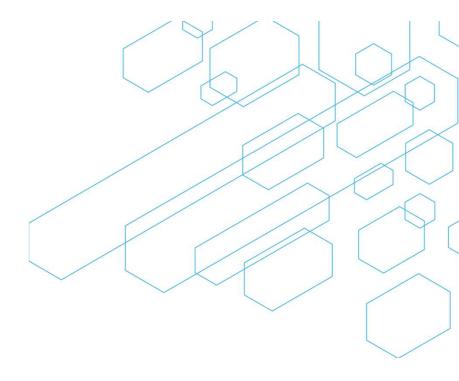
Impact of Chinese documents

- CAplus has 1,173,254 patent family records with a publication year of 2023 for the basic patent
- 785,501 have a Chinese document as the basic (>66%)
- DWPI has 4,397,060 patent family records with a publication year of 2023 for the basic patent
- -3,583,103 have a Chinese document as the basic (>81%)



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- Databases with Chinese patent information
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- Chinese dual filings
- Single member patent families in CAplus
- Legal status info in INPA







Chinese dual filings

- The Chinese patenting system allows for parallel filings of a patent application and a utility model on the same day
- Quicker coverage with utility, stronger patent protection with patent grants
- These two documents usually do not share any priority/application information, so typically they would be in two separate patent families
- CAplus, DWPI and INPAFAMDB databases try to pull these disparate documents into the same patent family – non-convention equivalents
- CNFULL does not have non-convention equivalents so these two documents will be two separate records in CNFULL





Chinese dual filings - CAplus

L3	ANSWER 2 OF 22959	HCAPLU	S COPYRIG	HT 2024 ACS	on STN	
Pater	ntPak PDF PatentP	ak PDF+	PatentP	ak Interact	ive	
AN	2024:296751 HCAPL	US Full	-text			
DN	185:313872					
TI	Multilayer reflect	ive con	posite and	preparatio	n method ther	efor
IN	Pan, Rui; Wu, Laix	i; Wang	, Junlin			
PA	Heyu Renewable Tec	hnology	Co., Ltd.	, Peop. Rep	. China	
SO	PCT Int. Appl., 27	pp.				
	CODEN: PIXXD2					
DT	Patent					
LA	Chinese					
FAN. (CNT 3					
PPPI						
	PATENT NO.	KIND	DATE	LANGUAGE	PatentPak	
	WO 2024027355	A1	20240208	Chinese	PDF PDF+	Interactive
	CN 115216236	A	20221021	Chinese	PDF PDF+	Interactive
	CN 218989143	U	20230509	Chinese	PDF	
PI						
	PATENT NO.	KIND	DATE	APPLICAT	ION NO.	DATE
	WO 2024027355	A1	20240208	WO 2023-	CN100988	20230619
	CN 115216236	A	20221021	CN 2022-	10935565	20220804
	CN 218989143	U	20230509	CN 2022-	22042218	20220804
PRAI	CN 2022-10935565	A	20220804			
	CN 2022-22042218	U	20220804			
PSPI						
	PATENT NO.		STATUS		US DATE	
	CN 115216236		Alive		1027	
	CN 218989143	U	Alive	2023	0518	

Note that these two documents share the same application date but have different applications numbers.





Chinese dual filings - DWPI

L4	ANSWER 1 OF 1206712 WPINDEX COPYRIGHT 2024 CLARIVATE on STN
AN	2024-14132W [2024013] WPINDEX Full-text
TI	Comprehensive index tester for testing effectiveness of outburst prevention measures, has front surface of tester shell assembled with internal camera, and front surface of tester shell is assembled with touch screen and key selecting area
DC	S03; T04
IN	CAO Y; HAN B; LI H; LI Y; LIAO W; LIU Z; QIN Z; XU X
PA	(CHLY-C) CHINA COAL TECHNOLOGY & ENG GROUP SHENY; (CHLY-C) CHINA COAL
1.0	TECHNOLOGY & ENG GROUP SHENYA; (SHAN-N) SHANXI CHANGPING COAL IND CO LTD
CYC PI	
сүс	TECHNOLOGY & ENG GROUP SHENYA; (SHAN-N) SHANXI CHANGPING COAL IND CO LTD 1
сүс	TECHNOLOGY & ENG GROUP SHENYA; (SHAN-N) SHANXI CHANGPING COAL IND CO LTD 1 CN 117420047 A 20240119 (2024013)* ZH
CYC PI	TECHNOLOGY & ENG GROUP SHENYA; (SHAN-N) SHANXI CHANGPING COAL IND CO LTD 1 CN 117420047 A 20240119 (2024013)* ZH CN 220380940 U 20240123 (2024013)# ZH
CYC PI ADT	TECHNOLOGY & ENG GROUP SHENYA; (SHAN-N) SHANXI CHANGPING COAL IND CO LTD 1 CN 117420047 A 20240119 (2024013)* ZH CN 220380940 U 20240123 (2024013)# ZH CN 117420047 A CN 2023-10690072 20230612; CN 220380940 U CN 2023-21485127U

Note that these two documents share the same application date but have different applications numbers.





Chinese dual filings - INPAFAMDB

	ANSWER 2 OF 119515	7 INPAFAMDB COPYRIGHT 2024 EPO/FIZ KA on STN
AN	86764795 INPAFAMDB 20240208	EWF 202247 UWF 202406 EDF 20240208 UPFB 20240208 UP1
		device and ice storage air conditioner with same. NDITIONER, METHOD, APPARATUS, AND COMPUTER READABLE
TIFR	CLIMATISEUR DE STO STOCKAGE LISIBLE P	CKAGE DE GLACE, PROCEDE, APPAREIL ET SUPPORT DE
	储介质.	
	DENG SHUYAO, CN	
	NB 树耀	
2022		
PAS	GD MIDEA AIR CONDI	TIONING EQUIPMENT CO LTD, CN
PAS	GD MIDEA AIR CONDI	FRIGERATION EQUIPMENT CO LTD
PAS -	GD MIDEA AIR CONDI GUANGDONG MIDEA RE 广东美的制冷设备有	FRIGERATION EQUIPMENT CO LTD
PAS - PAO	GD MIDEA AIR CONDI GUANGDONG MIDEA RE 广东美的制冷设备有 限公司	FRIGERATION EQUIPMENT CO LTD 写
PAS - PAO	GD MIDEA AIR CONDI GUANGDONG MIDEA RE 广东美的制冷设备有 限公司 CN 217817170 U	FRIGERATION EQUIPMENT CO LTD
PAS - PAO	GD MIDEA AIR CONDI GUANGDONG MIDEA RE 广东美的制冷设备存 限公司 CN 217817170 U CN 117490153	FRIGERATION EQUIPMENT CO LTD
PAS - PAO PI	GD MIDEA AIR CONDI GUANGDONG MIDEA RE 广东美的制冷设备存 限公司 CN 217817170 U CN 117490153 WO 2024021600	FRIGERATION EQUIPMENT CO LTD U 20221115 A 20240202 A1 20240201
PAS - PAO PI	GD MIDEA AIR CONDI GUANGDONG MIDEA RE 广东美的制冷设备存 限公司 CN 217817170 U CN 117490153 WO 2024021600 CN 2022-21944085U	FRIGERATION EQUIPMENT CO LTD U 20221115 A 20240202 A1 20240201 U 20220726
PAS - PAO PI	GD MIDEA AIR CONDI GUANGDONG MIDEA RE 广东美的制冷设备存 限公司 CN 217817170 U CN 117490153 WO 2024021600 CN 2022-21944085U CN 2022-10882984	FRIGERATION EQUIPMENT CO LTD U 20221115 A 20240202 A1 20240201 U 20220726 A 20220726

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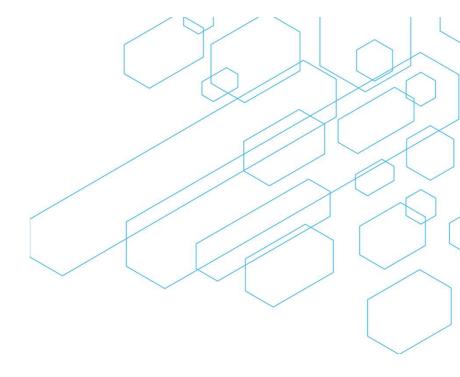
Note that these two documents share the same application date but have different applications numbers.





Agenda

- Databases with Chinese patent information
- CAplus, DWPI, INPA, CNFULL, REAXYSFILEBIB
- Chinese dual filings
- Single member patent families in CAplus & INPADOCDB
- Legal status info in INPA







Chinese single member families - CAplus

- Oftentimes, a Chinese document will be the only document in a patent family
- Some of these documents are considered to be 'not of value' and have not been maintained
- These DEAD patents can easily be isolated/eliminated in CAplus and INPADOCDB searches by using the patent family count (/PN.CNT in CAplus, /PNC in INPADOCDB) and status indicator fields (/STI)





Chinese single member families with DEAD status - CAplus

=> S	CN/PC AND	1/PN.CNT
	9326696	CN/PC
	10937829	1/PN.CNT
L1	5243096	CN/PC AND 1/PN.CNT
=> S	L1 AND DE	AD/STI
=> S		AD/STI DEAD/STI

	CN 116573475	A	Dead		40222	
	PATENT NO.	KIND	STATUS	STA	TUS DATE	
PRAI	CN 2023-10550882		20230516			
2012				CN 2023	-10550882	20230510
						2
F1	PATENT NO.	KIND	DATE	APPLICA	TION NO.	DATE
PI	CN 116573475	A	20230811	Chinese	PDF	
		1.22				
	PATENT NO.	KIND	DATE	LANGUAGE	PatentPak	
PPPI						
FAN.	CNT 1					
LA	Chinese					
DT	Patent					
	CODEN: CNXXEV					
	Faming Zhuanli She					
	SHENZHEN AES AUTON					
	SHENZHEN AES AUTON			,	reop. Rep. Cl	1110
20	Shenzhen AES Autor		양고 같은 아이는 것에서 여기		사람에서 여름 등 상태하지 않는	
	Automatic pole pie Zhang, Jianbin; Hu	and a second second		Cherry Environmental State		
	2023:1668028 HCAP		Sec. Start Sec. and	on EMachine	. Translation	ć.
100000	ntPak PDF		1			
Deter	+0-1: 005			2021	ACS on STN	





Chinese single member families with DEAD status - INPADOCDB

=> S	CN/PC AND	1/PNC
	38045661	CN/PC
	58769840	1/PNC
L1	27809783	CN/PC AND 1/PNC
=> S	L1 AND DE/	AD/STI
	77373735	DEAD/STI
	10017000	L1 AND DEAD/STI

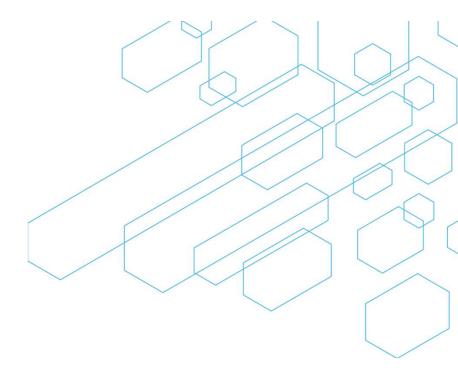
L2	ANSWER 1 OF 12017269 INPADOCDB COPYRIGHT 2024 EPO/FIZ KA on STN
AN	125902734 INPADOCDB ED 20240208 EW 202406 UP 20240208 UW 202406 Full-text
FN	86771525
TIO	紧固件构造
TL	Chinese
INO	杨士圣
PAO	立兆股份有限公司
DT	Utility Model
PI	CN 220423295 U U 20240202 Chinese
PIT	CNU UTILITY MODEL APPLICATION [FROM 19850401 UNTIL 19921231] or
	REGISTERED UTILITY MODEL [FROM 20100407 ONWARDS]
DAV	20240202 printed-with-grant
STA	GRANTED
XPD	20230725
STI	DEAD
AI	CN 2013-204483100 U 20130725 CNU Application for a utility model
PRAI	CN 2013-20448310U U 20130725 CNU Application for a utility model
	(Y,20240208)





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Chinese legal status - INPA

- Over 100 Chinese legal status actions
- Allows for great precision
- Ex. Chinese patent valid in Hong Kong
- FIZ Karlsruhe-generated legal status categories simplify search options
- i.e., ORE opposition, reexamination, LAP Lapse (non-payment of fees)



- Keyword search for CDRs
- Limit to Chinese documents (CN/PC) with Hong Kong legal status (HK/LSCC)
- Isolate records with DEAD status indicator, remove them from set if needed

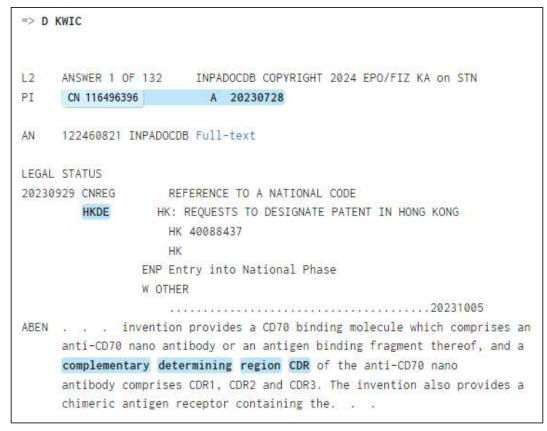


=> S CDR OR (C	OMPLEMEN? () DETER? () REGION?)	
9603 2956 11485	CDRS	Not a comprehensive search strategy. For illustrative purposes only.
5863530 2418329 3912	COMPLEMEN?	
=> S L1 AND CN	/PC AND HK/LSCC	
38045661	CN/PC	
424445	HK/LSCC	
L2 132	L1 AND CN/PC AND HK/LSCC	

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FIZ Karlsruhe









0.0	L2 AND DEAD/STI
	77373735 DEAD/STI
L3	38 L2 AND DEAD/STI
=> D	KWIC LS
L3	ANSWER 1 OF 38 INPADOCDB COPYRIGHT 2024 EPO/FIZ KA on STN
STI PI	
F 1	CN 109796533 A 20190524
AN LEGA	95203193 INPADOCDB Full-text
2020	0619 CNREG REFERENCE TO A NATIONAL CODE
	HKDE HK: REQUESTS TO DESIGNATE PATENT IN HONG KONG HK 40009057 HK
	ENP Entry into National Phase W OTHER
ABEN	
	binding fragments thereof, comprising the sequences of the VH, VL and
	CDR polypeptides described herein, and the polynucleotides encoding
	IN THE RECEIPTING TO CONTRACT AND A DESCRIPTION OF THE PARTY
	them. The invention also contemplates conjugates of anti-PCSK9 antibodiesand binding fragments thereof conjugated.

The legal status indicator DEAD shows that the document is determined to be no longer valid.

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FIZ Karlsruhe



20130508 CNA	Patent application CN 2018-11305039 A 20130508
	APP Application Information
20190524 CNA	UNEXAMINED APPLICATION FOR A PATENT FOR INV.
	CN 109796533 A 20190524
	PRE Pre-grant Publication
20190524 CNPB01	
	PUB New or Withdrawn Publication
	Q DOCUMENT PUBLICATION
20190618 CNSE01	ENTRY INTO FORCE OF REQUEST FOR SUBSTANTIVE EXAMINATION
	EXA Examination, Search Report
	D SEARCH AND EXAMINATION
	REFERENCE TO A NATIONAL CODE
HKDE	HK: REQUESTS TO DESIGNATE PATENT IN HONG KONG
	HK 40009057
	HK
	ENP Entry into National Phase
	W OTHER
20220923 CNWD01	- INVENTION PATENT APPLICATION DEEMED WITHDRAWN AFTER
	PUBLICATION
	WTH Withdrawal, Refusal, etc.
	B APPLICATION DISCONTINUATION

The last legal status action that determined the status flag of DEAD.





	L2 NOT L3
L4	94 L2 NOT L3
=> D	KWIC STI
L4	ANSWER 1 OF 94 INPADOCDB COPYRIGHT 2024 EPO/FIZ KA on STN
PI	CN 116496396 A 20230728
AN	122460821 INPADOCDB Full-text
LEGAL	STATUS
20230	929 CNREG REFERENCE TO A NATIONAL CODE
	HKDE HK: REQUESTS TO DESIGNATE PATENT IN HONG KONG
	HK 40088437
	нк
	ENP Entry into National Phase
	W OTHER
ABEN	
ABEN	
ABEN	invention provides a CD70 binding molecule which comprises an
ABEN	invention provides a CD70 binding molecule which comprises an anti-CD70 nano antibody or an antigen binding fragment thereof, and a
ABEN	invention provides a CD70 binding molecule which comprises an anti-CD70 nano antibody or an antigen binding fragment thereof, and a complementary determining region CDR of the anti-CD70 nano

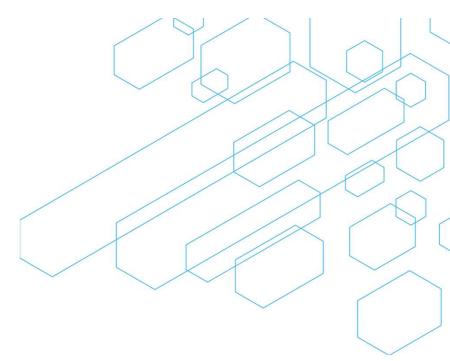
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Summary

- The amount of data coming from the Chinese patent office is presenting challenges to database producers
- So far, the producers have been able to maintain their quality standards
- CAS STNext has comprehensive Chinese patent data
- First level data
- Value added indexing in CAS and Derwent databases
- Citations
- Legal status







Resources

- STN Database Summary Sheets
- CAplus CAplus Database Summary Sheet (DBSS) (cas.org)
- Derwent World Patents Index WPI Database Summary Sheet (DBSS) (cas.org)
- INPADOCDB INPADOCDB Database Summary Sheet (DBSS) (cas.org)
- CNFULL CNFULL Database Summary Sheet (DBSS) (cas.org)
- REAXYSFILEBIB REAXYSFILE Database Summary Sheet (DBSS) (cas.org)
- EPO Chinese patent searching overview https://www.epo.org/en/searching-for-patents/helpful-resources/asian/china





Additional info

- STN additionally provides information for Taiwan
- TWFULL Patents Full-Text of Taiwan, Province of China
- INPADOCDB/INPAFAMDB





Between problems and progress are connections that matter



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